TAMMET, Kh.F.

Analytical method of processing observations in studying the distribution of atmospheric ions according to mobility. Trudy GGO no.13:103-110 162. (MIRA 15:12) (Atmospheric electricity) (Ions-Migration and velocity)

TANNET, Ih.F., SEPPER, E.V.

Theory of theelectrostatic fluxmeter. Trudy GGO no.97:97-100 '60.
(MIRA 13:8)

(Electric measurements)

AFFTC/ASD/ESD-3 EWT(1)/BDS/ES(v) L 13126-63 s/049/63/000/004/005/005 AUTHOR: Tammet, Kh. F., Saluvere, T.A. Horizontal components of an atmospheric electrical field TITLE: near a uniform subjacent surface Izvestiya. Seriya geofizicheskaya, Akademiya nauk SSSR. PERIODICAL: no. 4, 1963, 654-656 The connection of horizontal components of an electrical field near an underlying surface with a vertical component and with the distribution of a bulk charge is investigated. A field with horizontal components E_{χ} , E_{χ} and vertical component E_{χ} is considered. From the potentiality of the electric field, these correlations result: (1)Card 1/2

L 13126-63

Horizontal components of an atmospheric ...

\$/049/63/000/004/005/005

dEy

dE_Z

(2)

These are used for an indirect evaluation of the possible values of horizontal components. An arrangement for the study of the components of an electric field near a subadjacent surface is presented. The layout of the monitors for three polymers and a block scheme of the amplifying and recording apparatus are shown. Correlations (1) and (2) permit proposal of a more ideal method of experimental study of horizontal components with the aid of three polymers arranged on the level of an uniform underlying surface. There is I figure and 2 non-English references.

ASSOCIATION: Tartuskiy gosudarstvennyy universitet (Tartu State Uni-

versity)

SUBMITTED: June 28, 1962

Card 2/2

ACCESSION NR: AT4011520

S/2531/63/000/146/0071/0074

AUTHOR: Tammet, Kh. F.

TITLE: Circuit diagrams for aspiration counters of aeroions

SOURCE: Leningrad. Glavn. geofiz. observatoriya. Trudy*, no. 146, 1963.

Atmosfernoye elektrichestvo, 71-74

TOPIC TAGS: aspiration counter, aeroion, aeroion counter, voltage instability

ABSTRACT: In a general consideration of methods for compensating for voltage instability on the part of the power-supply by means of special circuit arrangements, the author points out that a well-known method is the use of a bridge circuit as shown in Figure 1 of the Enclosure. Depending on concrete circumstances, either the outer plate of the test capacitor can be grounded or one input terminal of the electrometer may be selected for this purpose. The electrometer in the circuit arrangement illustrated in Figure 1 of the Enclosure is connected to the diagonal of the bridge which is formed by resistances R_1 , R_2 and the capacitances of test capacitor C and supplementary compensating capacitor C_1 . The author indicates that the bridge connection is advisable when sensitivity gained through reduction of value ω (determined in a bridge circuit by the

Cord 1/6

ACCESSION NR: AT4011520

stability of the bridge balance) exceeds the sensitivity loss caused by the connection of the shunting capacitor C1. Another possibility for eliminating errors caused by the power-source voltage instability consists of replacing the voltage source for the duration of the test by a special capacitor charged from a high-stability, power-supply unit. The advantages and disadvantages of this technique are discussed. In the discharge method the reference capacitor should be connected between the inner plate of the test capacitor and the electrometer as shown in Figure 2 of the Enclosure. In order not to lose sensitivity, the value of the capacitance C2 must be several times greater than that of the series-connected capacitances of the test capacitor and the electrometer. The effect of voltage instability is completely eliminated in the combined circuit arrangement, shown in Figure 3 of the Enclosure. In this combined arrangement the value of the compensating capacitor C1 may be relatively small, with the result that counter sensitivity is better than that in the simple bridge hook-up. The balance condition of the combined circuit does not depend on the value of the test capacitor. This is, in turn, a convenient feature for counters with an interchangeable inner plate. Orig. art. has: 1 formula. and 4 figures.

ASSOCIATION: Glavn. geofiz. observatoriya, Leningrad. (Main Geophysical Observatory)

Card 2/6

ACCESSION NR: AT4011520

SUBMITTED: 00 DATE ACQ: 20Feb64 ENCL: 03

SUB CODE: EE NO REF SOV: 003 OTHER: 002

ACCESSION NR: AT4011520

ENCLOSURE: 02

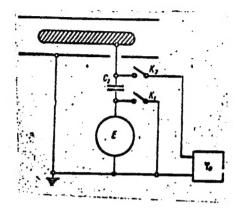


Fig. 2 - Counter connected in circuit with reference-voltage capacitor.

Card 5/

ACCESSION NR: AT4011520

ENCLOSURE: 03

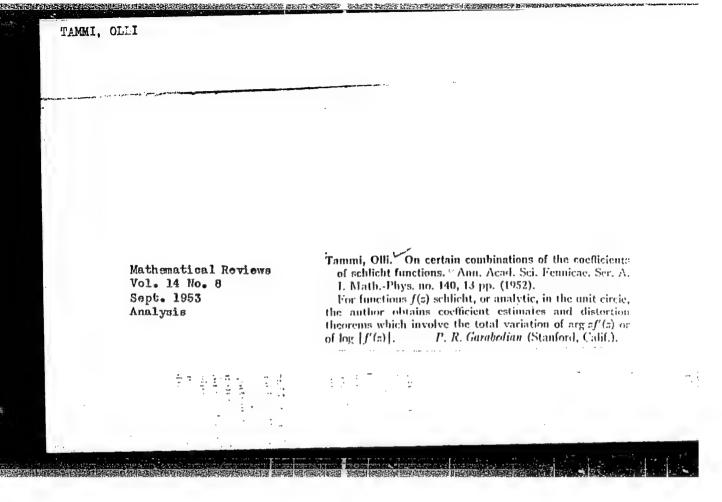
Fig. 3 - Counter connected in "combined" circuit.

Card 6/6

TAMMET, Kh.F. [Tammet, H.]

Determining the effective capacity of the cylindrical measuring condenser of an aspiration counter for atmospheric ions. Izv. AN SSSR. Ser. geofiz. no.3:436 Mr 164. (MIRA 17:3)

1. Tartuskiy gosudarstvennyy universitet.



I-14

TAMMIK , K. D.

USSR/Chemical Technology - Chemical Products and Their

Application. Industrial Organic Synthesis

: Referat Zhur - Khimiya, No 4, 1957, 13070 Abs Jour

Author Freydin B.G., Tammik K.D.

Separation of Synthetic Acids by the Method of Extractive Title

Crystallization by Means of Urea.

Orig Pub : Zh. prokl. khimii, 1956, 29, No 6, 935-940

Abstract Investigated were 2 variants of the method of extractive

crystallization, by means of urea (I), for the separation of synthetic fatty acids having straight and branched chains, namely: by treatment with saturated solution of I, in the presence or in the absence of undissolved excess of I, or by grinding of I with fatty acids in the presence of a small amount of activating agent. Subjected to separation were acids obtained by oxidation of the diesel fraction of liquid synthetic fuel (boiling range 220-3300), and also of kerosene, dearomatized by

Card 1/4 - 273 -

USSR/Chemical Technology - Chemical Products and Their Application. Industrial Organic Synthesis I-14

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 13070

treatment with H₂SO₄. a) A solution of synthetic fatty acids in twice their volume of light gasoline (BP < 100°) or C₆H₆, was treated at 20-22° with efficient stirring, for 30-60 minutes, with a saturated solution of I (in the presence of undissolved I), taken in an amount ≥ 120% of the theoretical; ~ 350 ml of saturated solution of I being taken per 80 g of acids of normal structure. The complex that was formed was filtered off together with the excess I and washed with gasoline or C₆H₆. From the gasoline (benzene) layer, were isolated, by distillation of the solvent, the acids that did not react with I. The aqueous layer was stirred while heating to 80°, with the filtered off precipitate, the acids that separated were removed, washed with water and dried, while the aqueous solution of I was cooled and used together with the precipitate of I that separated, in the

Card 2/4

- 274 -

USSR/Chemical Technology - Chemical Products and Their Application. Industrial Organic Synthesis

I-14

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 13070

next experiments. b) I, taken in an amount corresponding to 120% of the theory, was ground with the mixture of synthetic fatty acids, preferably in the presence of 3% (on the basis of I) of water or CH₃OH. Further washing of the complex that was formed to remove the unreacted acids, their isolation and decomposition of the complex, were carried out as described above. Presented are the results of separations of mixtures of saturated acids, produced from peanut oil and by oxidation of synthelic fraction (boiling range 220-330°). Ascertained was the posibility of utilizing extractive crystallization by means of I, for the separation of synthetic fattly acids produced by oxidation of liquid hydrocarbon mixtures, including also their solid fractions, and also for the purification from byproducts of oxidation. By changing the conditions of extractive crystallization

Card 3/4

- 275 -

USSR/Chemical Technology - Chemical Products and Their Application. Industrial Organic Synthesis

I-14

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 13070

(change in the amount of \underline{I}) it is possible to isolate purer acids of a normal structure.

Card 4/4

- 276 -

reary 1 per minutes at 100 minutes a	, J		. 07-62-9 66/m/kg	Imelasion Compounds and Their Dee in the Petroloums 6)	indeed Train and Sulterous 58	Cargos is the University desired Desire Their Discribes Western Indexes	paradas derech Terr Dation im M. S. Erder. S. Erder. Progninges of 217 The Confession of 2017	OCCESSES. In actional contracts of entirely claims with a contract of the charter of the state of the charter o	rense. This boarder is invented for inclination, such expenses of inclinated to the efficient inferences and properties of inclinations.	Specialist Agustass Martin Condustrance planes brotters. Resplantationalists Descriptionally stylenges by the conductivity of the first of the contract of the first of the contract of the first of the contract of the first of	 Standarding of Radio marks, 19, 33, 30 g. Gardines (1 as grounds inventors) Oughest principle 		Los finas sometimas	The second secon			
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SIOBODIN, Ya.M.; AL'THAN, S.S.; TAHNIK, K.D.

Preparation of antiwear sulfur-containing additives based on ethylene sulfide and fatty acids. Proisv.smas.mat. no.5:58-63 159. (MIRA 13:4)

1. Leningradskiy opytnyy neftemaslozavod imeni Shaunyana. (Imbrication and lubricants--Additives)

MUSHENKO, D:V.; LEVINA, M.I.; TAMMIK, M.E.

Hydrogenation of distillates obstined from the catalytic cracking of Romashkino crade oil on a nickel-melybdenum catalyst. Trudy VNIINeftekhim no.3:163-172 '60. (MIRA 14:2) (Petroleum-Refining) (Motor fuels) (Hydrogenation)

S/081/61/000/011/028/040 B103/B202

AUTHORS: Mushenko, D. V., Levina, M. I., Tammik, M. E.

TITLE: Hydrogenation of the wide fraction of catalytic cracking of Romashki petroleum on catalysts with increased catalytic

activity

2016年8月1日 1916年1日 191

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 11, 1961, 481, abstract

11M176 (11M176). ("Tr. Vses. n.-i. in-t neftekhim,

protsessov", vyp. 3, 1960, 173-177)

TEXT: Two new catalysts have been suggested: fluorine-nickel-molybdenum catalyst with the contents (in %): 0.5 F, 4.2 Ni, 6.8 Mo and chromium-molybdenum catalyst with 3.3 Cr and 5.6 Mo. They are used for hydrogenating a catalyzate from which benzene boiling up to 200°C has been removed and which had been obtained on cracking Romashki petroleum by using a powdery catalyst by the method of AZNII NP. The products were hydrogenated at a pressure of 100 atm and a temperature of 425°C. The product resulting from a two-stage processing of the strongly sulfurous Romashki petroleum was 76.1 % of pure commercial products, among them

Hydrogenation of the...

S/081/61/000/011/028/040 B103/B202

(in %): benzene up to 200°C, Diesel oil AN ("DL") 35.9, alkylation and polymerization product 4.3. In addition, 3.6 % (referred to petroleum) of metallurgical fuels of low sulphur content are obtained. [Abstracter's note: Complete translation.]

Card 2/2

s/065/60/000/007/004/008/XX E194/E484

Levina, M.I., Rysakov, M.V. and Tammik, M.E. Catalytic Hydrofining of Diesel Fuel Fractions AUTHORS:

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.7,

pp.6-11

Hydrofining is the best way of removing sulphur compounds This article gives the results of an TEXT: investigation of hydrofining of diesel fuel fractions on an aluminium-cobalt-molybdenum catalyst with various operating The initial characteristics of the diesel fuel used The hydrofining circulation system is conditions. illustrated schematically and is described and the operating conditions are stated. Experimental results of hydrofining diesel fuels under various conditions are given in Table 2. The data show that as the temperature is raised from 350 to 400°C, the degree of sulphur removal increases and at 400°C and a pressure of 15 atm, the degree of desulphurization is high. If the feed contains a high resin content the activity of the catalyst is reduced by the formation of coke on the catalyst. The catalyst can be regenerated A sample of catalyst was regenerated by oxidizing the coke. Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754820003-1"

S/065/60/000/007/004/008/XX E194/E484

Catalytic Hydrofining of Diesel Fuel Fractions

12 times and was still efficient afterwards. Data on the hydrofining of diesel fuel with a high resin content is given in Table 3. The results of balance tests given in Table 4 show that at a temperature of 400°C and a pressure of 15 atm, the yield of refined diesel fuel is 98%. Data on the analysis of circulating gas are given in Table 5. The results of hydrofining diesel fuel with technical hydrogen containing from 0.6 to 1.5% of carbon dioxide are given in Table 6, and it will be seen that this does not reduce the activity of the catalyst. Characteristics of hydrofined diesel fuel are given in Table 7; diesel fuel of the required properties was obtained from a devonian crude by hydrodesulphurizing at a temperature of 400°C and a pressure of A number of different catalysts were made up containing 15 atm. varying amounts of cobalt and molybdenum, the carrier used was aluminium oxide. The results of activity tests of the various catalysts are given in Table 8. It is found that catalyst containing 3.2% cobalt and 4.8% molybdenum is vary active. are 1 figure, 8 tables and 1 English reference.

ASSOCIATION: VNIINeftekhim

Card 2/2

PARTICIPATE OF THE PROPERTY OF

\$/065/61/000/012/001/005 E075/E135

Mushenko, D.V., Levina, M.I., Tammik, M.E., AUTHORS:

Mochalovskaya, A.P., Semenova, V.V., and Zimina, A.V.

Pilot-plant deresinification of crude oils by

TITLE: contact process

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.12, 1961,

The contact process for deresinification of crude oils developed by VNIINeftekhim in 1953-1955 was tested in a pilot plant to obtain data for industrial planning. The plant consisted of a heat-exchanger, capable of heating the oil to 430-450 °C and 70-30% vaporization, and a refractory brick-lined reactor suitable for operation at temperatures up to 1000 °C. An improved ironcontaining contact catalyst was prepared for the experimental runs in a catalyst factory, in the form of cylindrical pellets (5 mm²). The reactor was charged consecutively with a 15 cm layer of 25 x 25 mm Raschig rings, 10 cm layer of 10 x 10 mm Raschig rings, the first 125 cm-high layer of the contact catalyst, an

card 1/Kn

Pilot-plant deresinification ...

\$/065/61/000/012/001/005 E075/E135

intermediate 25 mm layer of Raschig rings and a second layer of the catalyst, followed by another layer of 25 mm Raschig rings. In all, 18 m3 of the catalyst were used. After deresinification the catalyst is blown with superheated steam to remove volatile products and then air for 12-15 hours. The regeneration process can be speeded up by increasing the amounts of steam and air passing through the catalyst. The results of the deresinification process and its material balance are given in Table 4. Of the deresinified oil 64% distilled below 350 °C, 93% below 500 °C and 97.6% below 530 °C. The experimental runs confirmed that the deresinification is a specific process for the removal of asphalts and resins, proceeding with a small thermal effect, and is not a modification of cracking. The gas formation is negligible and does not exceed 1%. After regeneration is finished it is not necessary to carry out spacious cooling of the reactor since the newly introduced feedstock rapidly makes its temperature uniform. The proposed process is recommended in the first place for high-sulphur crudes. There are 2 figures, 5 tables and 4 Soviet-bloc references.

Card 2/ 1/2

MITSIO NAKAMURA; SOICHI KHOSOI; BAKLI, A.R.; PARKINSON, U.;
ATKINS, G.B.; KILIPINEN, Urkho; PERGYUSON, D.D.;
MAKVEYG, Amos; TAIMINEN, Mauro; ISKARO, Rubens; ZILLER, Armando

Significance of the Fifth World Trade-Union Congress to the workers. Vsem. prof. dvizh. no.8:7-14 Ag '61. (MIRA 14:8)

1. Chlen Ispolnitel nogo komiteta mestnoy sektsii v Niigata, Yaponiya (for Mitsuo Nakamura). 2. Chlen TSentral'nogo ispolnitel nogo komiteta profsoyuza trudyashchikhsya gosudarstvennykh zheleznykh dorog, Yaponiya (for Soichi Khosoi). 3. General'nyy sekretar' Federatsii kotel'shchikov Avstralii (for Bakli). 4. Predsedatel Avstraliyskoy federatsii gornyakov i trudyashchikhsya shifernykh predpriyatiy (for Parkinson). 5. Federal'nyy sekretar' Assotsiatsii kuzmetsov Avstralii (for Atkins). 6. Sekretar kaznachey Avstraliyakoy assotsiatsii parovoznykh mekhanikov i mashinistov (Novyy Yuzhnyy Uel's) (for Pergyuson). 8-7. Sekretar Avstraliyskoy federatsii rabotnikov promyshlennosti po proizvodstvu alkogolinykh napitkov i rodstvennykh predpriyatiy (sektsiya Novogo Yuzhnogo Uel'sa) (for Makveyg). 8. Sekretar' profsoyuza kamenshchikov Finlyandii (for Kil'pinen). 9. Sekretar' profsoyuza vodolazov Finlyandii (for Tamminen). 10. Chlen Ispolnitel'nogo komiteta Vsemirnoy federatsii profsoyuzov (for Iskaro). 11. Vitsepredsedatel Natsional noy konfederatsii bankovskikh sluzhashchikh Brazilii, predsedatel Federatsii bankovskikh sluzhashchikh shtata Minas Zherias (for Ziller). (World Federation of Trade Unions-Congresses)

TAMOCHKIN. A.N. uchitel' sredney shkoly (st. Adsakovo Ufimskoy zh.d.).

Experience in regional studies. Geog. v shkole no.3:53-55 My-Je '53.

(MLRA 6:6)

(Geography-Study and teaching)

TAMODLIN, Yu.V., inzh.

Use of electric transformers with split 6 kv. windings. Prom. energ. 18 no.2:31 F *63. (MIRA 16:2) (Electric transformers) (Electric substations)

SECRETARIAN CONTROL PROGRAMMENDATION CONTROL C L_13881-66 EWT(1)/ETC(m)-6/T/EWP(f) IJP(c) · AT/WW ACC NR AP6004536 SOURCE CODE: UR/0236/65/000/004/0153/0164 AUTHOR: Makaryavichyus, V. I. - Makarevicius, V.; Tamonis, H. H. 87 ORG: Institute of Power and Electrical Engineering, Academy of Sciences, Lithuanian SSR (Institut energetiki i elektrotekhniki Akademii nauk TITLE: The effect of chemical reactions on the diffusional-convective SOURCE: AN LitSSR. Trudy. Seriya B. Fiziko-matematicheskiye, khimicheskiye, geologicheskiye i tekhnicheskiye nauki, no. 4, 1965, TOPIC TAGS: heat transfer, mass transfer, ablation, heterogeneous ABSTRACT: The effect of schemical reaction on the diffusional-convective energy transfer was studied by solving the diffusion equation for a heterogeneous reaction taking place in the laminar boundary layer of an isothermal, catalytic surface. A cubic concentration profile was assumed in the boundary layer and an integral method was used for the solution. Solutions were plotted in the form **Card** 1/2

13881-66

ACC NR: AP6004536

where $Kc'_y = D \cdot \left| \frac{\partial c}{\partial y} \right|_{y=0}$

vs. the reaction order γ and the Euler number. The latter accounts for the hydrodynamic conditions in energy transfer. The dimensionless kinetic regime to that in a diffusion controlled regime. Rw is the reaction rate at the wall. The solutions were obtained for a wedge-rwere found to be the controlling factors for the process. When the ponents, then the mass transfer rate depends on the concentration of several comtions and the diffusion coefficients of the reacting components. The can be generalized by the usual criterial equations when the potential coefficient.

SUB CODE: 21/ SUBM DATE: 06Jul65/ ORIG REF: 006/ OTH REF: 001

combustion 25, 44,55

Card 2/2

TAMONIS, M.M.

Laminar boundary layer on a wedge-shaped surface following an exponential law of velocity distribution on the outer boundary of the layer. Part 1. Temperature boundary layer.

Trudy AN Lit. SSR. Ser. B no.3:169-177 '65. (MIRA 19:1)

1. Institut energetiki i elektrotekhniki AN Litovskoy SSE. Submitted February 8, 1965.

MAKARYAVICHYUS, V.I. [Makarevicius, V.]; TAMONIS, M.M.

Effect of chemical reactions on diffusion-convective energy transfer. Trudy AN Lit. SSR. Ser. B. no. 4:153-164 '65 (MIRA 19:2)

THE PROPERTY AND THE PROPERTY OF THE PROPERTY

1. Institut energetiki i elektrotekhniki AN Litovskoy SSR: Submitted July 6, 1965.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754820003-1

ACC NR: AP6009567 SOURCE CODE: UR/0236/65/000/003/0169/0177

AUTHOR: Tamonis, M. M. (Tamonis, M.)

ORG: Institute of Power and Electrical Engineering, Academy of Sciences, Lithuanian SSR (Institut energetiki i elektrotekhniki Akademii nauk Litovskoy SSR)

TITLE: Laminar boundary layer on a wedge-shaped surface when the velocities on the outside boundary of the layer are distributed according to a power law. 1. Thermal boundary layer

SOURCE: AN LitSSR. Trudy. Seriya B. Fiziko-matematicheskiye, khimicheskiye, geolo-

gicheskiye i tekhnicheskiye nauki, no. 3, 1965, 169-177

TOPIC TAGS: laminar boundary layer, boundary layer, heat transfer, adiabatic process

ABSTRACT: Equations for a laminar boundary layer on a wedge-shaped surface are theoretically analyzed for the case where the velocity distribution on the outer boundary of the layer conforms to a power law. The energy equation is solved by the integral method using cubic profiles for the velocities and temperatures in the boundary layer. It is found that this method gives results which coincide satisfactorily with exact solutions of the differential energy equation. It is shown that this equation may be linearized by using piecewise linear approximation in isolated intervals for the ratios between the thicknesses of the thermal and dynamic boundary layers ζ_m . Energy

Card 1/2

Formulas are given which approximate also given. Analytical formulas are definitions of the numerical solutions are also given. Analytical formulas are definitions are also given. Analytical formulas are definitions of the numerical solutions are also given. Analytical formulas are definitions of the numerical solutions are also given. Analytical formulas are definitions. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Analytical formulas are definition. Orig. State of the numerical solutions are also given. Orig. State of the numerical solutions are also given. Orig. State of the numerical solutions are also given. Orig. State of the numerical solutions are also given. Orig. State of the numerical solutions are also given. Orig. State of the numerical solutions are also given. Orig. State of the numerical solutions are also given. Orig. State	L 21597-65 CC NR: AP600956 quations are sol n the law for ve icients in the e ection depend bo cormulas are give graphs of the number	ved in a wide locity distrib xpression for th on the expo en which appro- merical soluti	heat exchang onent in this ximate these ons are also	e between w distributi coefficient given. And without an	edges with on law and seems are seems and seems are seems and seems and seems and seems are seems and seems and seems and seems are seems and seems are seems and seems are seems and seems are seems are seems are seems are seems and seems are seem	on the val	ue of ζ_{T}	for
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MIKHIN, G.A.; VEKSLER, M.A.; BOYARINOV, A.I. Primali uchastiye: TAMONKIN,I.V.; TEREKHIN, E.M.

Laboratory high-frequency automatic titrator. Zav.lab. 29 no.8.
1008-1009 '63. (MIRA 16:9)
(Conductometric analysis)

 TAMONOV, A.A.

Flow of a nonlinearly viscoplastic medium between two plates. Issl. po uprug. i plast. no.2:203-211 '63. (MIRA 16:8) (Bearings (Machinery)—Lubrication) (Plasticity)

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TAMONOV, F., kand. voyennykh nauk The nature and objectives of the Soviet Armed Forces. Komm. Vooruzh.Sil 2 no.12:13-20 Je 162.

. (Russia-Armed forces)

(MIRA 15:8)



Methodology of determining CO₂ in the air using a TG-5 titrimeter and a volumetric microanalytic apparatus. Trudy Inst. okean. 54: 125-134

(MIRA 16:6) (Titrimeters) (Air-Analysis) (Carbon dioxide)

TAMONT'YEV, V.P.; BRUYEVICH, S.V.

Strontium in the waters of the Pacific and Indian Oceans and the Black Sea. Trudy Inst. okean. 67:41-55 *64.

(MIRA 17:12)

More than one million rubles has been saved. Stroitel' no.1:26 Ja
'61. (Wilnius—Gypsum)

TAMOSHAYTIS, P. T.

"The Question fo the Clinical Aspects of Infectious Monspecific Arthrites and Their Treatment with Sulfur." Vilnius State U imeni V. Kapsukasa, Vilnius, 1955 (Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

TAMOSHAYTIS, Yu.S. [Tamosaitis, J.]

Harry of the street of the str

Negative relief of the bogs of interdune troughs in the Lithuanian S.S.R. Trudy AN Lit. SSR. Ser.B no.1:69-76 '65. (MIRA 18:7)

1. Institut geologii i geografii AN Litovskoy SSR.

TAMOSHAYTIS, Yu.S. [Tamosaitis, J.]

Genetic classification of bog beds in the Lithuanian S.S.R. Trudy AN Lit. SSR. Ser. B no.3:137-147 '64. (MIRA 18:5)

1. Institut geologii i geografii AN Litovskoy SSR.

TAMOS UNAS, J.; VAZNELIS, J., red.; BANCEVICIUS, G., tekhn. red.

[Achievements and future development of agriculture in the Lithuanian S.S.R.] Lietuvos TSR zemes ukio laimejimai ir perspektyvos. Vilnius, Valstybine politines ir mokslines literaturos leidykla, 1963. 47 p. (MIRA 16:6) (Lithuania—Agriculture)

TAMOSHYUNAS, I.M. [Tamosiunas, L.]

Texture of Upper Permian amounties in the southern part of the Baltic region. Trudy AN Lit. SSR. Ser. B no.2:131-151 (64. (MIRA 18:3)

1. Institut geologii i geografii AM Litovskoy SSR.

TAMOSHYUNAS, L.M. [Tamosiunas, L.]

陈铁林祖**思明明明的对方的光行之间的古典**特征的英雄的一种,不是一种,他们们的一种,他们们们的一种,他们们们的一种,他们们们们的一种,他们们们们们们们的一种,他们们

Chemical composition of the Upper Permian sulfate formation in the Lithuanian SSR and the problem of its practical utilization. Trudy AN Lit.SSR. Ser. B. no.2:219-231 '65. (MIRA 19:2)

1. Institut geologii i geografii AN Litovskoy SSR. Submitted September 15, 1964.

SOV/112-58-1-551

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 1, p 81 (USSR)

AUTHOR: Bela-Belov, A. M., and Tamoyan, G. S.

TITLE: Explosion-Proof Start-and-Control Equipment for Automatic Control of Shaft Winches and Small Hoisting Machines (Yzryvobezopasnaya puskoreguliruyushchaya apparatura diya avtomatizirovannogo upravleniya shakhtnymi lebedkami i malymi pod"yemnymi mashinami)

PERIODICAL: V sb.: Raboty M-va elektrotekhn. prom-sti SSSR po mekhaniz. i avtomatiz. nar. kh-va, Moscow, 1956, pp 81-83

ABSTRACT: Assemblies developed at the plant imeni Karl Marx are described for remote and automatic control of shaft winches and small hoisting machines. A distinguishing feature of the above assemblies is use of dynamic braking of the winch motor to insure stable reduced speed for lowering cargo and men. The purpose, operating principle, and electrical circuits of individual control units included in the above assemblies are described. A simplified control circuit diagram of shaft-type winch motor made up of standard units is

Card 1/2

SOV/112-58-1-551

Explosion-Proof Start-and-Control Equipment for Automatic Control of Shaft presented. The system is intended for starting, speed regulation, braking,

presented. The system is intended for starting, speed regulation, braking, and stopping a wound-rotor induction motor up to 160 kw capacity, and also provides protection and interlocks necessary for normal faultless operation of an automatic outfit.

A.V.S.

AVAILABLE: Library of Congress

1. Hoists--Control systems 2. Control systems--Design

3. Control systems--Operation

Card 2/2

TAMOYAN, G.S.

RIMAN, Ya.S., inshener: TAMOYAN, G.S., inshener.

New explosion-proof equipment for controlling mine winches. Veet. elektropress. 28 no.3:74-77 Mr '57. (MIRA 10:4)

1. Zaved imeni Karla Marksa Ministerstva elektropremyshlennosti. (Electric relays) (Mine hesting)

BELA-RELOV. A.M., inzh.; TAMOYAN, G.S., inzh.

Explosion proof magnetic control stations. Ugol¹ Ukr. 2 no.2:38-40 P ¹58. (MIRA 13:3)

1:Zavod im. Karla Markwa.

(Coal mining machinery--Electric driving)

(Automatic control)

ACCESSION NR: AP4044508

5/0281/64/000/004/0466/0473

AUTHOR: Ivanov-Smolenskiy, A. V.; Tamoyan, G. S.

TITLE: A basis for designing shielded asynchronous electric motors having a conducting fluid in the gap

SOURCE: AN SSSR. Izv. Energetika i transport, no. 4, 1964, 466-473

TOPIC TAGS: electric motor design, electric motor, shielded electric motor, asynchronous electric motor, gap fluid

ABSTRACT: Hermetically sealed asynchronous motors with conducting fluids in the gap are used for pumping liquid metals, electrolytes, etc. In this paper, such a motor is described and the layer of conducting fluid is treated as a finite number of hollow rotors with slip varying between I and sp, the magnetic field developed being a combination of the fields due to stator, rotor and all the hollow rotors. Magnetohydronamic forces are not amenable to the usual methods of calculating electric motors but are described by the Maxwell equations for a moving medium, the Navier-Stokes equation and the equation of continuity, the system in general not being integrable. In the Kafedra elektricheskikh mashin MEI (Electric Motor Department, MEI) models were set up for studying the behavior of liquid sodium (at 150-200C) having Reynolds numbers of 103-105, and Hartmann numbers of 0-100, in

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ACCESSION NR: AP4044508

full and partially full gaps. The results for laminar flow and a rotating field showed that the characteristics depended on the Hartmann number and that the loss in the layer was approximately equal to the power absorbed from the stator field, in the synchronous unloaded condition. Using the method of dimensions and the principle of dynamic similarity, a universal relationship was obtained between loss in the conducting fluid and the Hartmann number. With reasonable assumptions as to flux leakage etc., a vector diagram, equivalent circuit and power-dissipation diagram were constructed and a system of equations derived. The solution of these equations yielded all the design parameters, such as flux in the gap, differential dissipation, friction due to liquid, resistance of shielding, etc. Twelve additional sources of power loss were listed and stated to contribute only 0.45% in a loaded operation. Orig. art. has: 6 figures and 18 formulas.

ASSOCIATION: none

SUBMITTED: 19Sep63

ENCL: 00

SUB CODE: EE

NO REF SOV: 007

OTHER: 000

Card

2/2

ACCESSION NR: AP4042739

5/0143/64/000/006/0032/0039

AUTHOR: Ivanov-Smolenskiy, A. V. (Docent); Tamoyan, G. S. (Engineer)

TITLE: Similitude criterion of magnetohydrodynamic phenomena and electromagnetic-power losses in a layer of conducting liquid between the rotor and stator in an induction motor

SOURCE: IVUZ. Energetika, no. 6, 1964, 32-39

TOPIC TAGS: pump, sealed pump, liquid metal pumping, conducting liquid pumping, sealed pump motor

ABSTRACT: This problem is confronted in simulating the driving motor of a completely sealed turbine-type pump handling a liquid metal or other conducting liquid. By adapting the classical Navier-Stokes fluid-motion equations to the specific conditions of the sealed-pump motor, these similitude criteria are developed: dem. (Hartmann's criterion, M),

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ACCESSION NR: AP4042739

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where s_{ρ} is the slip of the rotor boundary in the magnetic field, Δ is the gap thickness, B is the magnetic induction, σ is the electric conductivity, ρ is the liquid density, and \forall is the kinematic viscosity. Scale factors for determining power losses in the motor are calculated. The above criteria were experimentally corroborated on a universal induction-motor model with a liquid metal in its airgap; tests were conducted in a wide range of M. Theoretical and experimental unit-electromagnetic-power-vs.-M curves are presented. Orig. art. has: 3 figures and 31 formulas.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power-Engineering Institute)

SUBMITTED: 12Dec63

ENCL: 00

SUB CODE: EE

NO REF SOV: 008

OTHER: 000

Card 2/2

IVANOV-SMOLENSKIY, A.V. (Moskva); TAMOYAN, G.S. (Moskva)

Basis for the design of a shieled asynchronous electric motor with conductive liquid in the air gap. Tzv. AN SSSR. Energ. 1 transp. no.4:466-473 Jl-Ag 164. (MIRA 17:10)

L 1068-66 EMT(d)/EMT(1)/EPA(s)-2/EMT(m)/EMP(w)/EPF(n)-2/EMP(v)/T-2/EMP(t)/EMP(k)/

EWP(b)/EWA(h)/ETC(m) JD/WW/JG/EM

ACCESSION NR: AR5006808

S/0196/65/000/001/1014/1014 621.313.333.2.001.24

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 1165

AUTHOR: Ivanov-Smolenskiy, A. V.; Tamoyan, G. S.

TITLE: Design of the induction shielded motor with a conducting liquid in its gap

CITED SOURCE: Tr. Mosk. energ. in-ta, vyp. 56, 1964, 207-220

100 TAGS: induction motor, conducting liquid pump, sealed pump motor

TRANSLATION: A method of design of the shielded induction motor having a conducting liquid between its stator and rator is substantiated. Such motors are used in the sealed pumps for liquid metals, electrolytes, or other conducting liquids. Such a motor can be regarded as a squirrel-cage type holding in its gap several hollow rotors with different velocities. The stator shield is stationary and has a slip s = 1. The rotor shield is stationary with respect to the rotor and has a slip s = s_p. The conducting-liquid layer in the gap can be regarded as an infinite number of hollow rotors whose slips continuously vary from: s = 1 (at the stator) to s = s_p (at the rotor). In such a motor, the mutual-induction field is formed as Cord 1/2

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IJF(c) JD/W/JG
ACCESSION NR: AP5006239 S/0292/65/000/002/0005/0009

AUTHOR: Ivanov-Smolenskiy, A. V. (Candidate of technical sciences); 26

Tamoyan, G. S. (Engineer)

TITLE: Experimental investigation of the phenomena transpiring in a layer of conducting liquid in an induction-motor gap

SOURCE: Elektrotekhnika, no. 2, 1965, 5-9

TOPIC TAGS: sealed rotor pump, liquid metal pump, induction motor, pump

ABSTRACT: An experimental outfit intended for simulating the operation of a scaled-rotor liquid-metal-pump induction motor is described. The presence of the liquid metal in the stator-rotor gap greatly complicates determining the motor characteristics because the phenomena in that metal-filled gap obey the laws of magnetohydrodynamics, hardly describable by mathematical means. Hence, an experimental machine was developed which permitted a maximum liquid-sodium temperature in the gap of 200C, a working temperature of 150C, and a Reynolds number of 7000 or much higher; power-supply frequency, 20-200 cps; slip

Card 1/2

motor

L 54628–65 ACCESSION NR: AP5006239

range, 1-0; motor speed, 500-3000 rpm; gap, 0.4-1.4 mm; flux density, 1000-7000 gauss. Four replaceable stators with different active lengths, diameters, and pole numbers were used; two of the stators had a four-speed winding, one — two-speed, and one — single-speed. Twelve rotors permitted setting any of three gaps, 0.4, 0.9, or 1.4 mm. The effect of the mutual- induction emf of the machine upon the power consumed by the liquid-sodium-gap layer was determined under synchronous no-load conditions. The emic power received by the layer was approximately proportional to the effective value of the gap flux density. It was also found that the emic-power loss in the gap depends only slightly on the working slip and on the gap thickness. Orig. art. has: 8 figures and 8 formulas.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power-Engineering Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 2/2

EWT(1)/EPA(s)-2/EWT(m)/EPF(c)/FCS(f) DJ ACCESSION NR: AP5006239 . 45 5/0292/65/000/002/0005/0009 AUTHOR: Ivanov-Smolenskiy, A. V. (Candidate of technical sciences); Tamoyan, G. Sij(Engineer) TITLE: Experimental investigation of the phenomena transpiring in a layer of

conducting liquid in an induction-motor gap un

SOURCE: Elektrotekhnika, no. 2, 1965 5-9

TOPIC TAGS: sealed rotor pump, liquid metal pump, induction motor, pump motor

ABSTRACT: An experimental outfit intended for simulating the operation of a sealed-rotor liquid-metal pump induction motor is described. The presence of the liquid metal in the stator-rotor gap greatly complicates determining the motor characteristics because the phenomena in that metal-filled gap obey the laws of magnetohydrodynamics, hardly describable by mathematical means. Hence, an experimental machine was developed which permitted a maximum liquid-sodium temperature in the gap of 200C, a working temperature of 150C, and a Reynolds number of 7000 or much higher; power-supply frequency, 20-200 cps; slip

Card 1/2

L 6937-66

ACCESSION NR: AP5006239

range, 1-0; motor speed, 500-3000 rpm; gap, 0.4-1.4 mm; flux density, 1000-7000 gauss. Four replaceable stators with different active lengths, diameters, and pole numbers were used; two of the stators had a four-speed winding, one - two-speed, and one - single-speed. Twelve rotors permitted setting any of three gaps, 0.4, 0.9, or 1.4 mm. The effect of the mutual-induction emf of the machine upon the power consumed by the liquid-sodium-gap layer was determined under synchronous no-load conditions. The emic power received by the layer was approximately proportional to the effective value of the gap flux density. It was also found that the emic-power loss in the gap depends only slightly on the working slip and on the gap thickness. Orig. art. has: 8 figures and 8 formulas.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power-Engineering

Institute) 47 55

SUBMITTED: 00

ENGL: 00

SUB CODE: JE

NO REF SOV: 000

OTHER: 000

(Jeh)

ACC NR: AP7003343

SOURCE CODE: UR/0281/66/000/006/0071/0079

AUTHOR: Ivanov-Smolenskiy, A. V. (Moscow); Tamoyan, G. S. (Moscow)

ORG: none

TITLE: Turbulent flow of a conducting fluid in an annular duct under a circular rotating magnetic field

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 6, 1966, 71-79

TOPIC TAGS: turbulent flow, conducting fluid, magnetic field, rotating magnetic field, liquid metal, magnetohydrodynamics, electromagnetic pump, nuclear reactor

ABSTRACT: Equations were derived earlier by one of the authors (see: G. S. Tamoyan. Magnetohydrodynamic phenomena in the layer of a conducting fluid between the rotor and stator of an asynchronous electric motor. Izv. AN SSSR, Energetika i Transport, 1964, No. 3) which describe the laminar flow of a conducting fluid in an annular duct with a moving boundary (in the space between the asynchronous electric motor and the rotating rotor) in a circular magnetic field. In the present article, the authors present a quantitative analysis of turbulent flow in such a duct. Similitude criteria are obtained for the loss of

Card 1/2 UDC: 532, 517, 4:621, 3, 013, 33

ACC NRI AP7003343

electromagnetic power within the conducting fluid layer. Data obtained experimentally are cited to substantiate these criteria. Orig. art. has: 2 figures and 13 equations. [Translation of authors' abstract]

SUB CODE: 20, 21/SUBM DATE: 29Sep65/ORIG REF: 011/OTH REF: 002/

Card 2/2

RYZHOW, Yu.A.; TAMOYKIN, V.W.; TATARSKIY, W.I.

Space dispersion of inhomogeneous media. Zhur. eksp. i teor. fiz. 48 no.2:656-665 F '65. (MIRA 18:11)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta i Institut fiziki atmosfery AN SSSR.

L 10007-63 ENG(k)/BDS/ENT(1)/EEC(b)-2/ES(w)-2-AFFTC/AFWL/ASD/ZSD-3/ SSD--Pz-4/Pab-4/P1-4/Po-4-IJP(C)/AT ACCESSION NR: AP3000150 S/0141/63/006/002/0257/0266

AUTHOR: Tamoykin, V. V.

TITLE: Radiation of a charge in the inhomogeneous medium with a spatial dispersion

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, v. 6, no. 2, 1963, 257-266

TOPIC TACS: radiation of charge, plasma waves

ABSTRACT: Previous Soviet articles neglected spatial dispersion in treating the radiation problems. This article provides a theory for finding the intensity and angular distribution of fluctuating radiation of electromagnetic and plasma waves, when the charge uniformly moves in a statistically inhomogeneous plasma with a weak spatial dispersion. Based on the equations for a dispersed field, formulae are developed for the average intensity of the fluctuating radiation of transverse (electromagnetic) waves and longitudinal (plasma) waves below and above the threshold of the Cherenkov radiation of the latter. "The author is thankful to V. L. Ginzburg, N. G. Denisov, and V. V. Zheleznyakov for discussions and advices. "Orig. art. has: 41

GORODINSKIY, G.V.; TAMOYKIN, V.V.

Resonance radiation from a charge moving near a plasma clot. Izv. vys. ucheb. zav.; radiofiz. 6 no.47721+728 *63. (MIRA 16:12)

1. Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete.

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EPR/ENT(1)/BDS--AFFTC/ASD--Ps-4----

ACCESSION NR: AP3000047

ड/0056/63/044/005/1544/155

10 J

AUTHOR: Tamoykin, V. V.; Biragov, S. B.

58

TITLE: Radiation reaction of sound due to the motion of small bodies in inhomogeneous gaseous media

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 44, no. 5, 1963, 1544-1551

TOPIC TAGS: Radiation reaction of sound, inhomogeneous gas media

ABSTRACT: Radiation of sound due to the motion of a solid in a statistically inhomogeneous gaseous medium is analyzed by using the analogy with Cerenkov radiation. An expression is found, by the method of the radiation reaction of sound, for the intensity of sound waves radiated under conditions where the dimension of the body is much smaller than its mean free path, and much smaller than the wavelength. It is shown that, in contrast with homogeneous media, sound can be radiated in inhomogeneous media at subsonic velocities of the bodies. It is noted that the radiation of a charge can be considered by a similar method, for example in an inhomogeneous magnetoactive plasma and in

Card 1/2

L 10231-63

ACCESSION NR: AP3000047

an inhomogeneous medium with spatial dispersion. "The authors express their gratitude to Professor V. L. Ginzburg and N. G. Denisov for valuable discussion of the results of the research." Orig. art. has: 37 formulas.

ASSOCIATION: Radifizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta (Radiophysics Institute, Gor'kiy State University)

SUBMITTED: 260ct62 DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NR REF SOV: 014

OTHER: 002

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L 6710_65 EWT(1) AFMD(t)/RAEM(a)/BAEM(c)/ASD(a)_5/AFETR/ESD(gs)/ESD(t)/
ACCESSION NR: AP4044097 RAEM(t) S/0141/64/007/003/0432/0441

AUTHOR: Tamoykin, V. V.

TITLE: On the reaction of radiation when a charge moves in a periodically inhomogeneous medium

SOURCE: IVUZ. Radiofizika, v. 7, no. 3, 1964, 432-441

TOPIC TAGS: electromagnetic radiation, parametric resonance, Maxwell equation, inhomogeneous medium

ABSTRACT: The radiation of electromagnetic waves when a charged particle moves in a medium with periodically varying properties is considered, with account taken of the parametric resonance between the oscillator vibrations and the transition-radiation field produced as the charge moves in the medium. The parametric-resonance effect was disregarded in earlier investigations of an oscillator moving in an inhomogeneous medium. It is assumed that the charge

Card 1/3

L 6710-65

ACCESSION NR: AP4044097

executes both translational motion and vibration. Maxwell's equations are used and all the quantities are expanded in Fourier integrals. The case when the properties of the medium vary little over a distance on the order of the wavelength is considered first, followed by analysis of the case when the oscillator covers during the time of one oscillation a distance equal to the period of the inhomogeneity of the system. It is shown that in the latter case the radiation produced during the motion of the oscillator can give rise in some cases to a buildup of oscillations at frequencies below the natural frequency of the oscillator. Other cases considered an oscillator vibrating perpendicular to the translational velocity, and the case of a wavelength much larger than the dimension of the inhomogeneity. It is shown that even in a weakly inhomogeneous medium it is necessary to take into account in some cases the resonance between the oscillator vibration and the transition radiation field, since this effect can lead to a buildup of the oscillations of the oscillator. Expressions are obtained for the energy of the radiated

Card 2/3

L 6710-65 ACCESSION NR: AP4044097 electromagnetic waves for a medium with both large-scale and smallscale inhomogeneities. The results can be useful for the stability of subluminal and superluminal beams moving in inhomogeneous media. "The author takes the opportunity to thank V. L. Ginzburg, N. G.

Denisov, and V. Ya. Eydman for valuable discussions of the results." Orig. art. has: 43 formulas. ASSOCIATION: Nauchno issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Radiophysics Institute at the Gor'kiy University) 00 ENCL: 02Ju163 SUBMITTED: 000 OTHER: NR REF SOV: SUB CODE: EM, NP.

L 15215-65 EWT(1)/EWG(k)/EPA(Bp)=2/EPA(W)-2/EEC(t)/T/EEC(b)-2/EWA(m)-2 Pz-6/Po-4/Pab-10/Pi-4 SSD(b)/AFDC(a)/ASD(a)-5/AEDC(b)/AS(mp)-2/AFHD(t)/AFEIn/ RAEM(a)/ESD(dp)/ESD(gs)/ESD(t)/IJP(c)

ACCESSION NR: AP4048254

s/0141/64/007/004/0605/0610

AUTHORS: Ry*zhov, Yu. A.; Tamoykin, V. V.

TITLE: On the effective dielectric tensor of an inhomogeneous magnetoactive plasma

SOURCE: IVUZ. Radiofizika, v. 7, no. 4, 1964, 605-610

TOPIC TAGS: magnetoactive plasma, dielectric constant, inhomogeneous plasma, plasma electron concentration, plasma wave propagation, electromagnetic wave scattering

ABSTRACT: An expression is derived for the effective dielectric tensor of a weakly inhomogeneous magnetoactive plasma with specified inhomogeneities of the electron concentration. A uniform random field of the electron density fluctuation is assumed, and an equation for this average field is obtained by averaging the differential equation for the electric field over the ensemble of electron-

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L 15215-65 ACCESSION NR: AP4048254

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density inhomogeneities. The effective dielectric constant is determined by the method of F. V. Bunkin (ZhETF v. 32, 338, 1957), for the particular case when the dimensions of the inhomogeneities are small compared with the wavelength of the propagating radiation. It is shown that in the case of weak gyrotropy, the anisotropy of the plasma has practically no influence on the scattering; this agrees with the deductions of N. G. Denisov (Izv. vyssh. uch. zav. -- Radiofizika v. 3, 393, 1960). "The authors thank B. N. Gershman and N. G. Denisov for a discussion of the results." Orig. art. has:

ASSOCIATION: Nauchno issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific Research Radiophysics Institute at the Gor'kiy University)

SUBMITTED: 29Jan64

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AUTHOR: Tamoykin, V. V.

TITLE: Radiation from a charge moving in a medium with fluctuating parameters

SOURCE: IVUZ. Radiofizika, v. 7, no. 6, 1964, 1057-1063

TOPIC TAGS: radiating particle, radiating charge, spectral density, pressure fluctuation, entropy fluctuation, electron density fluctuation

ABSTRACT: Results obtained earlier by the author (Izv. vyssh. uch. zav. - Radio-fizika v. 6, 257, 1963) and by others are extended to the case when the medium is inhomogeneous not only in space but also in time. By way of a concrete example, an analysis is made of the radiation emitted by a charged particle moving in a gas with thermodynamic fluctuations of the pressure and entropy, and also in a plisms. With thermal fluctuations of the electron density. Account is taken of the fact with the time scales of the pressure and entropy fluctuations are different. The that the time scales of the pressure and entropy fluctuations are different. It is it ingreases when the time variation of the parameters of the medium has no effect or maximum effect on the energy radiated to the particle are discussed. It is

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ACCESSION NR: AP5006018

shown that in some cases the spectral density of the electromagnetic radiation may be lower than the energy radiated when the charge moves in a randomly inhomogeneous medium with time-invariant parameters. "The author thanks V. L. Ginzburg for suggesting the topic and N. G. Denisov for interest in the work." Orig. art. has: 32 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Scientific-Research Radiophysics Institute at the Gor'kiy University)

SUBMITTED: 19Nov63

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Card 2/2

L 53013-65 ENT(1)/EPF(m)-2/ENG(m)/EPA(w)-2 Pz-6/Po-h/Pab-10/Pi-h LJP(c)

WW/AT ACCESSION NR: AP5010675 UR/0141/65/008/001/0042/0049

AUTHOR: Temoykin, V. V.

TITIE: Energy losses of a charge moving in an inhomogeneous magnetoactive plasma

SOURCE: IVUZ. Radiofizika, v. 8, no. 1, 1965, 42-49

TOPIC TAGS: magnetoactive plasma, moving charge, transition radiation, fluctua-

ABSTRACT: The article deals with the variation of the ordinary and extraordinary waves when a charge moves along a magnetic field applied to a magnetoactive plasma with random electron-density fluctuations. The density fluctuations are assumed weak, and the fluctuations of the magnetic field or the thermal motion of the plasma electrons are disregarded. The calculation was made by determining the radiation reaction and using the effective dielectric tensor of an inhomogeneous plasma, defined as the ratio of the displacement to the electric field intensity. It is shown that both types of normal waves are produced in the inhomogeneous magnetic plasma at frequencies exceeding the natural plasma frequency, where Cerenkov excitation of the electromagnetic waves is impossible. It is also noted that on

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ACCESSION NR: AP5010675

approaching the Cerenkov threshold of the extraordinary wave emission at a given frequency, the intensity of the transition radiation of the charge increases log. arithmically, but only to a definite limit determined by the absorption of the electromagnetic wave due to collisions. It is noted in the conclusion that transition radiation of intensity larger than obtained in the present work can occur in a plasma near gyroresistance, and also in the general case at a frequency satisfying the plasma resonance, when the polarization oscillations excited by the moving charge are scattered by concentration inhomogeneities. "The author is deeply grateful to V. L. Ginzburg and N. G. Denisov for a valuable discussion." Orig. art. has: 30 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete (Radiophysics Scientific Research Institute at the Gor'kiy University)

SUBMITTED: 20Apr64

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ACCESSION HR: AP50	00212		60
AUTHOR: Ryzhov, Yu.	A.; Tamoykin, V. V.; Tate	erskiy, V. I.	25
TITLE: Spatial disp	ersion of inhomogeneous me	edia .	
656-665	perimental'noy i teoretic	· · · •	
TOPIC TAGS: spatial	dispersion, inhomogeneous oscillation		1
a medium is investigation tensor of a medium	1-dispersion mechanism con gated. An expression is o in which the dielectric co of weak fluctuations of t	nstant is subject to stro	ong fluctua- this expression
generalized the res Radiofizika, v. 2, tion of the dielect	827, 1959) without account ric tensor for the case of	t of spatial dispersion. f strong fluctuations is in the strong fluctuations of the strong of the s	The calcula- based on car- the authors
lier results of V. (Taterskiy, and Ger	M. Finkel'berg (ZhTF v. 34, tsenshteyn, ZhETF v. 44,	576, 1963; Tatarskiy, ZhF	rf v. 46,
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ACCESSION NR: AP5006515

1397, 1964 with some of the results of the latter corrected in the present paper). It is shown that spatial dispersion of the dielectric tensor does not give rise to longitudinal waves of the average field. The case of an inhomogeneous plasma is considered in detail by way of an example. An expression is derived for the tensor at frequencies close to plasma resonance, when the plasma acts like a medium with strong dielectric-constant fluctuations. The case of weak fluctuations (far frequencies) is also considered. "We thank M. A. Miller, A. V. Gaponov, and V. L. Ginzburg for discussions and valuable comments." Orig. art. has: 46 formulas.

ASSOCIATION: Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta (Radiophysics Institute, Gor'kiy State University); Institut fiziki atmosfery Akademii nauk SSSR (Institute of Atmospheric Physics, Academy of Sciences SSSR)

SUBMITTED: 11Aug64

ENCL: 00

SUB CODE: ME, EM

NR REF SOV: 007

OTHER: 000

Card 2/2 CC

ACC NR: AP7001214 SOURCE CODE: UR/0141/66/009/006/1124/1133

AUTHOR: Tamoykin, V. V.

ORG: Scientific Research Institute of Radiophysics, Gorkiy University (Nauchnoissledovatel'skiy radiofizicheskiy institut pri Gor'kovskom universitete)

TITLE: Effect of some statistical factors on the scattering characteristics of a cylinder of finite length

SOURCE: IVUZ. Radiofizika, v. 9, no. 6, 1966, 1124-1133

TOPIC TAGS: electromagnetic wave scattering, wave scattering, dielectric constant, optics, scattering cross section applied

ABSTRACT: An attempt has been made to investigate electromagnetic wave scattering by a smooth cylinder of finite length in a layer with random nonuniformity of the dielectric constant. Calculations were carried out to approximate the physical optics. It is shown that at sufficiently large fluctuation phase runs in the layer, the scattering cross section and the scattered radiation diagram vary significantly as compared to the case when there are no chaotic inhomogeneities in the medium. Wave scattering by a rough cylinder of finite length in a

Card 1/2 UDC: 538. 56:519. 25

ACC NR: AP7001214

normal medium appeared to be analogous to wave scattering by a cylinder in a chaotically inhomogeneous medium. The author thanks M. A. Miller and N. G. Denisov for discussions. Orig. art. has: 1 figure and 39 formulas. [Based on author's abstract]

SUB CODE: 20/SUBM DATE: 06Mar66/ORIG REF: 007/OTH REF: 004/

Card 2/2

SOV/132-58-12-10/14 Tamovkin, Yu.S. AUTHOR:

Drilling Pips Extractor for Liquidation of TITLE:

Breakdowns (Shlips dlya lovli buril'nykh trub pri likvida-

tsii avariy)

24.24 Razvedka i okhrana nedr, 1958, Nr 12, pp 49 (USSR) PERIODICAL:

A device for extracting drilling pipes severed from the main ABSTRACT:

pipecolumn inside the bore hole was constructed by S.G. Bunegin, a member of the Kama Geological Prospecting Team. Based

on the same principle as the holding grab, it is of much

simpler construction and holds obliquely-cut pipes.

There is 1 diagram.

Volzhskaya kompleksnaya geologorazvedochnaya ekspeditsiya ASSOCIATION:

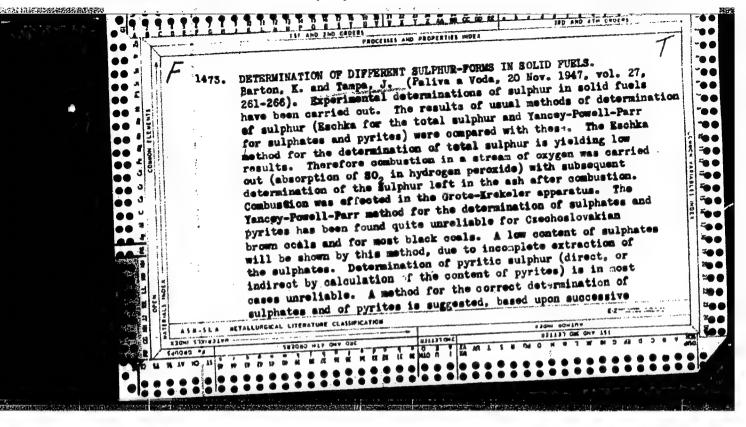
(The Volga Joint Geological Prospecting Expedition)

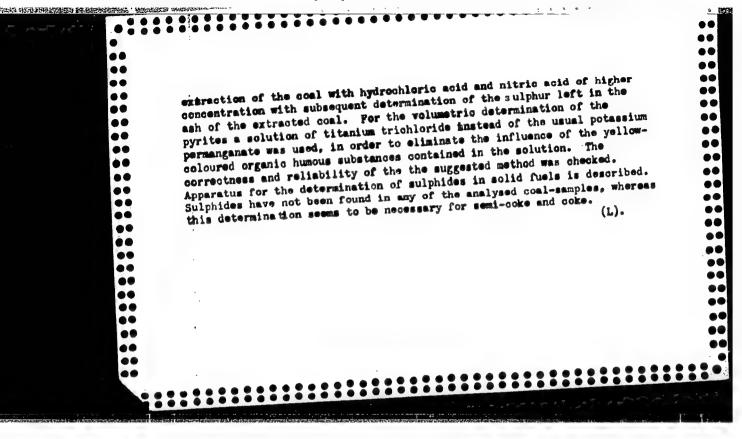
Card 1/1

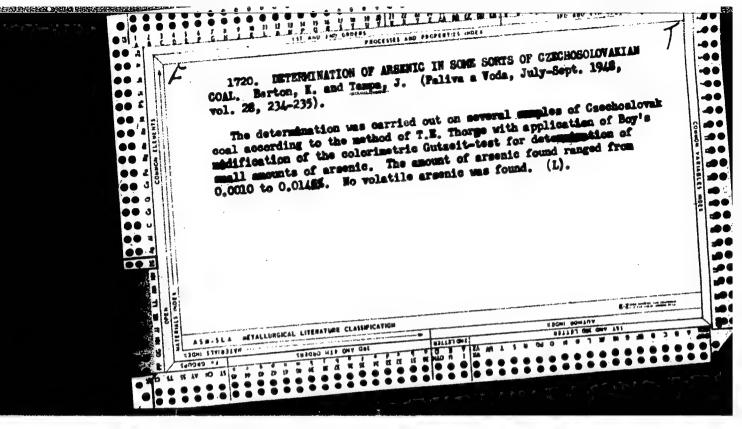
TAMOYKIN, Yu.

Bell socket with exchangeable dies. Biul.nauch.-tekh.inform.VIVS no.1:81 160. (MIRA 15:5)

1. Sredno-Volzhskoye geologicheskoye upravleniye. (Boring machinery)







SPERANSKIY, B.A., kand.tekhn.nauk; TAMPLON, F.F., inzh.

Prestressed aluminum structures having large-span roofs with suspended cranes. Trudy NII prom.zdan.i soor. no.5:90-123 '61. (MIRA 15:4)

(Aluminum, Structural) (Roofs)

SUKHANOV, V.P.; TAMPLON, F.F.

Optimal height of aluminum trusses with parallel chords. Trudy Ural.politekh.inst. no.131:88-95 *63. (MIRA 16:12)

LABZENKO, V.I., kand. tekhn. nauk; SMIRNYAGIN, Yu.V., insh.; VOLODARSKIY, B.Ya., inzh.; FLOROV, R.S., kand. tekhn.nauk; SPERANSKIY, B.A., kand. tekhn.nauk; SHAVSHUKOVA, G.N., inzh.; OL'KOV, Ya.I., inzh.; TAMPLON, F.F., inzh.; SUKHANOV, V.P., inzh.; TIMASHEV, S.A., insh.; BOLOTINA, A.V., red.izd-va; KOROBKOVA, N.I., tekhn. red.

[Progressive metal elements for industrial construction] Progressivnye metallicheskie konstruktsii dlia promyshlennogo stroitel'stva. [By]V.I.Labzenko i dr. Pod red. V.I.Labzenko i R.S.Florova. Moskva, Gosstroiizdat, 1963. 183 p. (MIRA 16:4)

SPERANSKIY, B.A., kand. tekhn. nauk; KRUPENNIKOV, S.S., kand. tekhn. nauk; KAPLAN, A.A., inzh.; TAMPLON, F.E., inzh.

Using prestressed metal beams for roofs. Prom. stroi. 41 no.4:37-41 Ap *64. (MIRA 17:9)

TAMPLON, F.F., inzh.

Manufacturing roof beams of aluminum alloy. Prom. stroi. 47 no.4:41-45 Ap '64. (MIRA 17:9)

TAMPLON, F.F., inzh.

Determination of stresses in wire cables based on their natural vibrations. Prom. stroi. 42 no.1:34-36 '65. (MIRA 18:3)

TAMR, V.

The use of shifting casting for the outer concreting of circular steel reservoirs. p.235. (Pozemni Stavby, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

TAMRAZOV, A.; SERGIYENYA, K. (g.Khar'kov)

Inspection of "red corners" is in progress. Sov. profsoiuzy
18 no.16:38 Ag '62. (MIRA 15:8)

1. Rektor narodnogo universiteta kul'tury pri krasnom ugolke Upravleniya Zakavkazskoy zheleznoy dorogi, g. Tbilisi (for Tamrazov). 2. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Sergiyenya).

(Community centers)

10(2)

建筑规则的时间

SOV/143-59-1-5/17

AUTHOR:

Romanenko, S.V., Candidate of Technical Sciences, Docent (Deceased), and Tamrazov, P.W., Engineer

TITLE:

Basic Problems of Thermodynamics of Flow Considering Real

Limit Conditions (Osnovnyye zadachi termodinamiki potoka

s uchetom real'nykh granichnykh usloviy)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika,

1959, Nr 1, pp 23-32 (USSR)

ABSTRACT:

The solution of any problem in flow thermodynamics implies an analysis of variable criteria of the flow, i.e. the determination of its behavior when the "total external action" (degree of cross-section narrowing, quantity of heat added or subtracted, nondimensional length of channel etc.) and the counterpressure are being changed. In thermodynamical literature, problems of variable criteria of flow are often solved for incidental or even unreal limit conditions. In the simplest practical prob-

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lems, the work of technical devices in variable conditions can be sufficiently characterized by a fixed or

Basic Problems of Thermodynamics of Flow Considering Real Limit Conditions

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regulable value of relative counterpressure or by the quantity of external action. To illustrate this, the authors adduce two problems of great practical importance that deal with isolated unilateral external actions: 1) stream with abstraction or addition of heat to a subsonic or sonic flow in the initial section of a nozzle; 2) stream with friction of subsonic or sonic flow. utions show that the so-called thermal and frictional crises, as construed on the basis of artificial limit conditions, do not materialize at the sonic flow speed in limit conditions that are real. In the first case, the addition of heat (expressed by the relative characteristic of heat exchange @) to subsonic flow does not bring it nearer, but removes it from the thermal crisis; and to sonic flow, weakens or, with certain @ values, eliminates the thermal crisis. In the second case the increase of the nondimensional length of the flow channel has a similar effect on the flow with regard to the frictional crisis. There are 6 diagrams and 7 references, 5

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Basic Problems of Thermodynamics of Flow Considering Real Limit Conditions

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of which are Soviet and 2 American.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev, Order of Lenin, Polytechnical Institute)

PRESENTED: By the Kafedra teoreticheskoy i obshchey teplotekhniki (Chair of Theoretical and General Thermotechnics)

SUBMITTED: November 24, 1958

Card 3/3

\$/123/61/000/004/023/027 A004/A104

AUTHORS:

Romanenko, S. V., and Tamrazov, P. M.

TITLE:

New methods of gas-dynamic calculations of heat-exchangers

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 4, 1961, 7, abstract 4I31. ("Izv. Kiyevsk. politekhn. in-ta", 1960, vol. 30, 13-30)

TEXT: The authors present some versions of plotting gas-dynamic calculations of heat exchangers operating on the principle of forward flow or counterflow. The formulae being recommended are simple enough, do not require auxiliary graphings and are not limited by assumptions on the nature of temperature changes of the wall or on the temperature pressure between the heat-transfer agents. There are 5 figures and 6 references.

B. Zemel'man

[Abstractor's note: Complete translation]

Card 1/1

S/021/61/000/005/003/012 D215/D304

AUTHOR:

Tamrazov, P.M.

TITLE:

SOUTH THE PROPERTY OF THE PARTY OF THE PARTY

Conformed mapping of a region on a rectangle with

rectilinear slits

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 5,

1961, 595 - 598

TEXT: The aim of the paper is to prove that the extremal problem has the solution (Theorem 1) which is unique (Theorem 2). The following definitions and notations were introduced by the author: The frontier interval A'A" is the set of frontier elements of the region B, which lies between any two frontier elements A' and A" of the region B. Region B is of the shape (A_1A_2, A_3A_4) if the frontier intervals A1A2 and A3A4 which are frontier intervals of one frontier component are not frontier intervals for the other frontier components: $\mathcal{M}(B, A_1, A_2, A_3, A_4)$ is the family of one sheet

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Conformed mapping of a ...

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conformal mappings of the region B into a region on the right half-plane, which lies between the lines β_0 : I_m w = 0 and β_1 : I_m w = = 1, $C(B, A_1, A_2, A_3, A_4)$ is the family of corresponding images of

$$B: \Phi(f) = \sup_{z \in B} [Ref(z)]$$
 (1)

is a functional defined in

$$(B, A_1, A_2, A_3, A_4):M(B, A_1, A_2, A_3, A_4) \equiv M = \inf \Phi(f): fe,M.$$

Extremal function F is any function $F \in \mathcal{M}(B, A_1, A_2, A_4)$ for which $\Phi(F) = M$. Extremal problem $P(B, A_1, A_2, A_3, A_4)$: To find in $\mathcal{M}(B, A_1, A_2, A_3, A_4)$ a transformation $F(B, A_1, A_2, A_3, A_4)$ and a corresponding region $K = K(B, A_1, A_2, \dots, A_4)$ where $K \in C(B, A_1, A_2, A_3, A_4)$ such that $\Phi(F) = M = M(B, A_1, A_2, A_3, A_4)$ where $M(B, A_1, A_2, A_3, A_4)$ card 2/6

Conformed mapping of a ...

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 A_3 , A_4) inf $\Phi(F)$, $f\in\mathcal{M}(B, A_1, A_2, A_3, A_4)$. Theorem 1. Problem $P(B, A_1, A_2, A_3, A_4)$ has a solution. Extremal region K is bounded by a rectangular contour with vertices 0, M, M + i, 1 corresponding to A_1 , A_2 , A_3 , A_4 and by a set of vertical slits lying inside the rectangle. Theorem 2. Solution of the problem $P(B, A_1, A_2, A_3, A_4)$ is unique. To prove the theorem 1 and 2 the author uses three lemmas, concluding that if all internal components of region B, except the finite number of vertical intervals, are contained in the zone with width Δ , then

mes
$$A_1 A_2 = M(B, A_1, A_2, A_3, A_4) \leq \Delta$$
. (9)

The proof of Theorem 1 is based on the principle of compactness and on the remark that if the frontier of the region B is not a rectangle with vertices A_1 , A_2 , A_3 , A_4 or any frontier component of region B is not a vertical slit, then there exists in $\mathcal{M}(B, A_1, A_2, A_3, A_4)$ Card 3/6